Fujitsu recommends Windows 8 Pro.

# Data Sheet
# Fujitsu ESPRIMO P720 E90+ Desktop PC

## Excellent Performance, Expandability and Efficiency

Fujitsu ESPRIMO P720 PCs bring you highly expandable technology for your challenging business applications. The use of identical components within the product family ensures perfect infrastructure compatibility and simplifies rollout. A 92%-efficient power supply will ensure environmental compliance for years to come. Intel® Standard Manageability Technology keeps administration costs to a minimum. Plus, EraseDisk ensures secure system retirement.

**Microtower**
Maximum performance and optimal extendability
- High-quality, high-value microtower, 7 drive bays, 4 PCI express interfaces

**Energy efficiency**
Reduce power consumption and costs - without any loss of performance
- Sophisticated technology, switched monitor outlet, low energy-consuming processors and enhanced power management settings

**Green technology**
Fujitsu's contribution to environmental protection and sustainability
- Halogen-free printed circuit of mainboard and power supply, sophisticated product concept for the entire lifecycle

**Quiet**
Pleasant working environment due to an extremely quiet system
- Innovative hardware design, optimized cooling concept ensures silent operations

**Serviceability**
Easy to extend and optimal user-friendliness without any additional tools
- Easy access to all replaceable and expandable components

Fujitsu recommends Windows 8 Pro.

# Components

| | |
|---|---|
| **Processor** | Intel® Core™ i7-4770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4600) * |
| | Intel® Core™ i5-4670 processor (4 Cores / 4 Threads, 3.40 GHz, up to 3.8 GHz, 6 MB, Intel® HD Graphics 4600) * |
| | Intel® Core™ i5-4570 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 4600) * |
| | Intel® Core™ i3-4130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 4400) |
| | Intel® Pentium® processor G3420 (2 Cores / 2 Threads, 3.20 GHz, 3 MB, Intel® HD Graphics) |
| | Intel® Pentium® processor G3220 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics) |
| | *with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables) |
| **Operating systems** | |
| **Operating system** | Windows 8 Pro<br>Windows 8<br>Windows® 7 Professional 64-bit<br>Windows® 7 Professional 32-bit |
| **Operating system compatible** | openSUSE Linux |
| **Memory modules** | 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| | 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| | 8 GB (1 module(s) 8 GB) DDR3, unbuffered, non-ECC, 1600 MHz, PC3-12800, DIMM |
| **Hard disk drives (internal)** | SSHD SATA III, 7200 rpm, 1000 GB, 3.5-inch |
| | SSHD SATA III, 5400 rpm, 500 GB, 2.5-inch |
| | SSD SATA III Premium, 256 GB, 2.5-inch |
| | SSD SATA III Premium, 128 GB, 2.5-inch |
| | SSD SATA III, 256 GB, 2.5-inch |
| | SSD SATA III, 128 GB, 2.5-inch, SED |
| | SSD SATA III, 128 GB, 2.5-inch |
| | HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 500 GB, 3.5-inch, business critical |
| | HDD SATA III, 7200 rpm, 500 GB, 3.5-inch |
| | HDD SATA III, 7200 rpm, 250 GB, 3.5-inch |
| | HDD SATA II, 5400 rpm, 320 GB, 2.5-inch |
| **Hard disk notes** | Up to 20 GB of HDD space is reserved for system recovery<br>SED (Self-Encrypting Drive)<br>SSD (Solid State Disk)<br>SSHD (Solid State Hard Disk, Hybrid drive) |
| **Graphics** | NVIDIA® NVS 300, 512 MB |
| | NVIDIA® GeForce® GT630 DisplayPort 2GB FH 0-Watt, 2 GB |
| | NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB |
| | LFH59/ 2x DVI-I adapter cable |
| | LFH59/ 2x DP adapter cable |
| | DP to DVI-D (single link) Adapter Cable |
| | DP Extension Card |
| | ATI Radeon® HD7350 1GB FH, 1 GB |
| | 2nd NVIDIA® Quadro® NVS 300, 512 MB |
| **Drives (optional)** | BD Triple Writer SATA slim (tray) |
| | DVD-ROM |
| | DVD Super Multi |
| | MultiCard Reader 24in1 USB 2.0 3.5" |

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| **Interface add on cards/components (optional)** | |
| | WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only) |
| | Parallel Interface |
| | Gigabit Ethernet PCIe x1, DS |
| | eSATA Interface |
| | Dual serial card PCIe x1 |
| **Base unit** | ESPRIMO P720 E90+ |
| **Mainboard** | |
| **Mainboard type** | D3221 |
| **Formfactor** | µATX |
| **Chipset** | Intel® Q85 |
| **Processor socket** | LGA 1150 |
| **Processor quantity maximum** | 1 |
| **Memory slots** | 4 DIMM (DDR3) |
| **Supported capacity RAM (max.)** | 32 GB |
| **Memory frequency** | 1600 MHz |
| **Memory notes** | Dual channel support.<br>For dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same. |
| **LAN** | 10/100/1000 MBit/s Intel® L217LV |
| **BIOS version** | AMI Aptio 4.6 |
| **BIOS features** | BIOS Flash EPROM update by software<br>Recovery BIOS<br>Unified Extensible Firmware Interface (UEFI) |
| **Audio codec** | Realtek ALC671 |
| **Audio features** | Internal speaker supports audio playback, High Definition audio, 5.1 surround sound |
| **I/O controller on board** | |
| **Serial ATA total** | 5 |
| **thereof SATA III** | 4 |
| **thereof eSATA** | 2 |
| **Controller functions** | Serial ATA II (3 Gbit)<br>Serial ATA III (6 Gbit)<br>NCQ<br>AHCI |
| **Interfaces** | |
| **Audio: line-in** | 1 |
| **Audio: line-in / microphone** | 1 |
| **Audio: line-out** | 1 |
| **Front audio: microphone** | 1 |
| **Front audio: headphone** | 1 |
| **USB 2.0 total** | 10 |
| **USB 3.0 total** | 4 |
| **USB front** | 4x 2.0 or 2x 2.0/ 2x 3.0 (optional) |
| **USB rear** | 4x 2.0 / 2x 3.0 |
| **USB internal** | 2 |
| **VGA** | 1 |
| **DisplayPort** | 1 (second DisplayPort optional) |
| **DVI** | 1 (DVI-D) |
| **Serial (RS-232)** | 1 (9pin, 16 byte FIFO, 16550 compatible) |
| **Mouse / Keyboard (PS/2)** | 2 |
| **Ethernet (RJ-45)** | 1 |

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| **Interfaces** | |
| **Parallel** | 1 (optional) (25pin with EPP and ECP) |
| **eSATA** | 1 (optional) |
| **Interface Module notes** | Anytime USB charge functionality |
| **Input device / components** | |
| | Optical USB wheel mouse |
| **Input devices (optional)** | Optical USB/PS2 tilt wheel mouse<br>KBPC PX ECO<br>Mouse M440 ECO |
| **Drive bays** | |
| **Drive bays total** | 7 |
| **2.5-inch internal bays** | 1 |
| **3.5-inch internal bays** | 2 |
| **3.5-inch external bays** | 2 |
| **5.25-inch external bays** | 2 |
| **Slots** | |
| **PCI-Express 3.0 x16** | 1 x (312 mm / 12.29 inch) Full height |
| **PCI-Express 2.0 x4 (mech. x16)** | 1 x (312 mm / 12.29 inch) Full height |
| **PCI-Express x1** | 2 x (170 mm / 6.7 inch) Full height |
| **Graphics on board** | |
| **Graphics brand name** | Intel® HD Graphics 4600 |
| **Shared video memory** | up to 1782 MB |
| **TFT resolution (VGA)** | 1024 x 768 pixel<br>1280 x 1024 pixel<br>1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1600 x 1200 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel |
| **TFT resolution (DVI)** | 1280 x 1024 pixel<br>1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel |
| **TFT resolution (DisplayPort)** | 1280 x 1024 pixel<br>1360 x 768 pixel<br>1440 x 900 pixel<br>1600 x 900 pixel<br>1680 x 1050 pixel<br>1920 x 1080 pixel<br>1920 x 1200 pixel<br>2560 x 1440 pixel<br>2560 x 1600 pixel<br>3840 x 2160 pixel (requires Intel® Core™ i3, i5 or i7 processor) |

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| **Graphics on board** | |
| **Graphics features** | Support for up to three independent displays<br>DirectX® 11.1<br>HDCP support<br>Open GL® 3.3<br>Open CL® 1.2<br>One DisplayPort connector can be converted to DVI-D or HDMI with an optional external adapter<br>For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows® 7 or Windows 8) |
| **Graphics notes** | up to 1 GB dedicated video memory (main memory owned and locked for graphics use)<br>Tested resolutions, depending on display type additional resolutions and frequencies possible<br>Shared memory depending on main memory size and operating system<br>Resolution (color depth up to 32 Bit/pixel)<br>For TFT we recommend using 60Hz |
| **Electrical values** | |
| **Power efficiency note** | power supply efficiency (at 230V; 20% / 50% / 100% load) : 88% / 92% / 91% |
| **Rated voltage range** | 100 V - 240 V |
| **Rated frequency range** | 50 Hz - 60 Hz |
| **Operating voltage range** | 90 V - 264 V |
| **Operating line frequency range** | 47 Hz - 63 Hz |
| **Max. output of single power supply** | 280 W |
| **Power factor correction/active power** | active |
| **Monitor outlet** | Switched |
| **Power consumption** | |
| **Power consumption note** | See white paper Energy Consumption |
| **Link to Energy White Paper** | http://docs.ts.fujitsu.com/dl.aspx?id=30741bf4-0396-454b-b809-3f30b3edc369 |
| **Heat dissipation** | |
| **Heat dissipation notes** | See white paper Energy Consumption |
| **Noise emission** | |
| **Related Processors for noise** | Intel® Core™ i7 4770 |
| **Standard noise emission** | 2x2 GB, HDD, ODD, Windows<br>According to ISO 7779:2010, ECMA-74 |
| **Standard noise notes / description** | A-weighted sound power level Lwad (in B) / Workplace related A-weighted sound pressure level LpAm (in dB(A)) |
| **Standard noise operation mode: CPU 50% load** | 3.9B / 26 dB(A) Bystander ; 31 dB(A) Operator position |
| **Standard noise operation mode: HDD load** | 3.5 B / 21 dB(A) Bystander ; 26 dB(A) Operator position |
| **Standard noise operation mode: Idle mode** | 3.5 B / 21 dB(A) Bystander ; 25 dB(A) Operator position |
| **Standard noise operation mode: ODD load** | 4.5 B / 31 dB(A) Bystander ; 36 dB(A) Operator position |
| **Standard noise operation mode: Office applications 2.0** | 3.5 B / 21 dB(A) Bystander ; 25 dB(A) Operator position |
| **Blue angel noise emission according certification** | According to ISO 7779:2010, ECMA-74<br>for max. possible configuration |
| **Blue angel noise notes / description** | A-weighted sound power level Lwad (in B); 1B = 10dB |
| **Blue angel noise operation mode: HDD load** | 3.6 B = 36 dB (A) |
| **Blue angel noise operation mode: Idle mode** | 3.6 B = 36 dB (A) |
| **Blue angel noise operation mode: ODD load** | 4.5 B = 45 dB (A) |

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| **Dimensions / Weight / Environmental** | |
| **Dimensions (W x D x H)** | 175 x 419 x 395 mm |
| | 6.89 x 16.5 x 15.56 inch |
| **Operating position** | Vertical |
| **Weight** | 11 kg |
| **Weight (lbs)** | 24.25 lbs |
| **Weight notes** | Actual weight may vary depending on configuration |
| **Operating ambient temperature** | 10 - 35 °C (50 - 95 °F) |
| **Compliance** | |
| **Product** | ESPRIMO P720 |
| **Model** | MI5W |
| **Germany** | TÜV GS |
| **Europe** | CE |
| **USA/Canada** | FCC Class B<br>cCSAus |
| **Global** | RoHS (Restriction of hazardous substances)<br>WEEE (Waste electrical and electronic equipment)<br>Microsoft Operating Systems (HCT / HCL entry / WHQL)<br>ENERGY STAR® 5.0<br>EPEAT® in progress (dedicated regions) |
| **Compliance link** | http://globalsp.ts.fujitsu.com/sites/certificates |
| **Additional Software** | |
| **Additional software (preinstalled)** | Workplace Protect (secure authentication solution)<br>Adobe® Reader®<br>McAfee Multi Access (anti virus and internet security software; 60 days trial version)<br>Win7: Fujitsu Recovery (Hard Disk Based Recovery)<br>Win8: Microsoft Push Button Recovery (Hard Disk Based Recovery)<br>Microsoft Office - buy license to activate the pre-installed Microsoft Office |
| **Additional software (optional)** | Recovery DVD for Windows®<br>Drivers & Utilities DVD (DUDVD)<br>CyberLink PowerDVD (BD/DVD playback software for Blu-ray Disc™)<br>CyberLink PowerDVD (DVD playback software)<br>Nero Essentials XL |
| **Miscellaneous** | |
| | Keyboard on (Special Fujitsu keyboard required)<br>Thermal management<br>Extended lifetime |
| **Compatibility (references)** | |
| | DMI 2.0<br>PC 2001<br>WMI 1.5<br>USB 2.0<br>SMBIOS |
| **Manageability** | |
| **Manageability technology** | DeskUpdate Driver management<br>PXE 2.1 Boot code<br>Wake up from S5 (off mode)<br>Intrusion switch (optional)<br>Intel® Standard Manageability<br>WoL (Wake on LAN) |
| **Manageability software** | DeskView Client<br>DeskView Instant BIOS Management<br>DeskView Integration for Symantec Management Platform |

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| **Manageability** | |
| **DeskView components** | Inventory Management<br>BIOS Management<br>Driver Management<br>Security Management<br>Alarm Management |
| **Manageability link** | http://www.fujitsu.com/fts/manageability |
| **Security** | |
| **Physical Security** | Kensington Lock support<br>Eye for padlock<br>Integrated cabinet lock (optional) |
| **System and BIOS Security** | EraseDisk (optional)<br>Boot sector virus protection<br>Write protect option for the Flash EPROM<br>Embedded security (TPM 1.2)<br>Control of all USB interfaces<br>External USB ports can be disabled separately<br>Control of external interfaces |
| **User Security** | User and supervisor BIOS password<br>Hard disk password<br>Access protection via external SmartCard reader (optional)<br>Access protection via internal SmartCard reader (optional) |
| **Serviceability** | |
| | EasyFix<br>EasyChange for HDD<br>EasyChange for optical drives |
| **Packaging information** | |
| **Packaging dimension (mm)** | 516 x 278 x 562 mm |
| **Packaging dimension (inch)** | 20.31 x 10.94 x 22.13 inch |
| **Max. quantity / pallet** | 24 |
| **Material - Weight (g) Carton** | 1405 g |
| **Material - Weight (lbs) Carton** | 3.1 lbs |
| **Material - Weight (g) EPS / PS** | 160 g |
| **Material - Weight (lbs) EPS / PS** | 0.35 lbs |
| **Material - Weight (g) PE** | 60 g |
| **Material - Weight (lbs) PE** | 0.13 lbs |
| **Packaging notes** | printed user documentation is bleached in chlorine free process |
| **Warranty** | |
| **Standard Warranty** | 1 year |
| **Service level** | Bring-In / Onsite Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty) |
| **Warranty Terms & Conditions** | http://support.ts.fujitsu.com/warranty |
| **Maintenance and Support Services - the perfect extension** | |
| **Recommended Service** | 9x5, Response Time: Next Business Day |
| **Spare Parts availability** | 5 years after end of product life |
| **Service Weblink** | http://www.fujitsu.com/fts/services/support |

# Recommended Accessories

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| **Display B23T-6 LED** | | The B23T-6 LED offers best ergonomics and usability for intensive office use with a 4-in-1 stand. High resolution for pin sharp pictures with modern applications | Order Code: S26361-K1388-V140 |
| **Display B24W-6 LED** | | The Fujitsu Display B24W-6 LED combines the best ergonomic and energy saving solutions for intensive office use. The flexible stand with height adjust assures an individual and healthy posture for long-time working sessions. With its impressive screen size it allows working on different documents in parallel or standard CAD applications. | Order Code: S26361-K1427-V140 |
| **Mouse M440 ECO** | | Fujitsu Mouse M440 ECO is made from 100% bio material and has a completely PVC free cable. The elegant M440 ECO works on nearly every surface and follows all your hand movements smoothly and precisely. It features two main buttons and as well as a scroll wheel providing comfortable computing to both right and left-handed users. | Order Code: S26381-K450-L200 |
| **SOUNDSYSTEM DS E2000 Air** | | The new more powerful SOUNDSYSTEM DS E2000 Air gives you impressive, well-balanced sound throughout the frequency band. It is an unbeatable USB speaker set with a surprisingly small form factor. The robust satellite speakers are decorated with a deluxe piano finish and the base is adorned with warm ambient lighting. | Order Code: S26391-F7128-L600 |
| **WebCam 130 HD2** | | With the most advanced HD (High Definition / 720p) recording feature and widescreen video format (16:9 and 16:10), WebCam 130 HD2 can capture up to 30 frame rate per second, close up to HD/720p quality video. Even more: 1-Click-Upload makes the video uploading to YouTube in a snap! With smart clip for notebook & LCD display it is easy to install on any device you want. | Order Code: S26391-F7136-L5 |
| **HS E2000 Communicator Headset** | | The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications. | Order Code: S26391-F7139-L5 |
| **Keyboard KBPC PX ECO** | | Fujitsu's KBPC PX ECO keyboard is the perfect contribution to Green IT. The keyboard is made out of 45% renewable raw material and comes with a PVC free USB cable. In addition, the KBPC PX ECO offers first class comfort and ergonomics. It attracts attention with its impressive modern design and useful extras. | S26381-K341-L1** (**: country specific variation) |
| **Wireless Keyboard Set LX900** | | The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security. | S26381-K564-L4** (**: Country specific variation) |

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# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO P720 E90+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

**Fujitsu Portfolio**
Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

**Computing Products**
www.fujitsu.com/global/services/computing/

**Software**
www.fujitsu.com/software/

## More information

Learn more about Fujitsu ESPRIMO P720 E90+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

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